

**Amendments to the Specification:**

On page 8 of the Specification, please replace the paragraph beginning line 4 through line 12 with the following paragraph:

The appearance of memory effects in enzymes is expected also on experimental grounds. ~~Stretched~~Stretched exponential decay has been observed in fluorescence decay (FD) measurements. It is known from theoretical work by Palmer and coworkers (Palmer, 1984) that such stretched exponential processes can be observed in complex systems where the transition from one state to the other depends on a number of subprocesses, provided the subprocesses must always be completed before the main process changes its state. It is strongly expected that systems with many internal states will display complex memory effects.